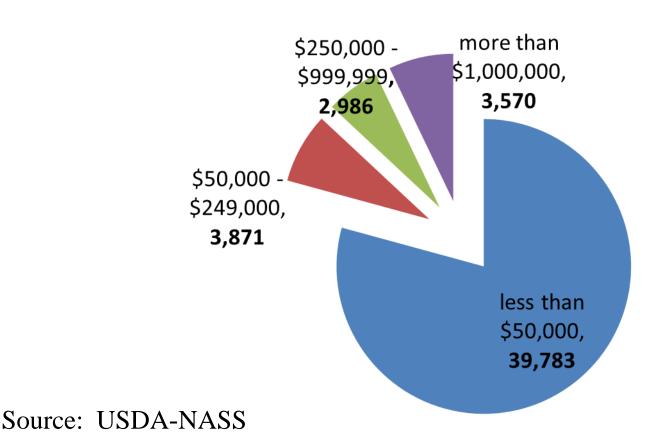
# NC Ag Situation & Outlook 2016: Global Connections

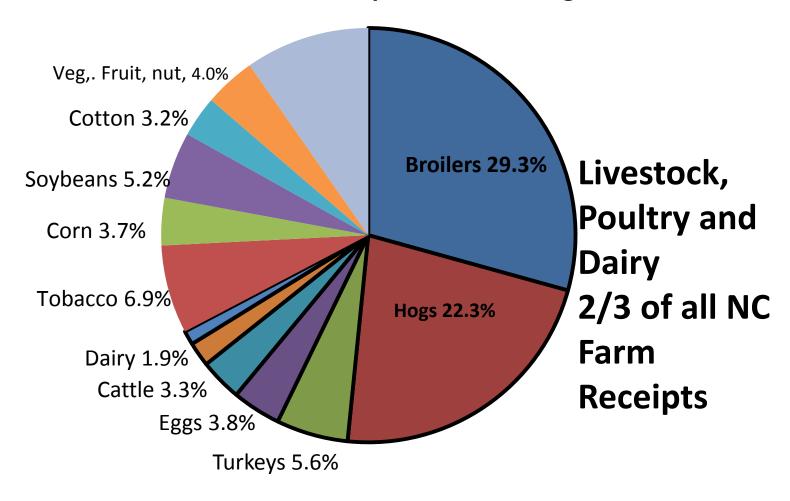
Dr. Blake Brown
Hugh C. Kiger Professor
Agriculture & Resource Economics
College of Agriculture & Life Sciences

## NC had 50,210 farms in 2012 Average Farm Acreage: 168



### **NC** Agriculture is Diverse

#### **2014 NC Cash Receipts from Farming**



Source: NC Ag Statistics Yearbook 2015

#### "High on the Hog: Farm Income Soars"

"Bumper Corn, Soybean Harvests Help Raise Outlook"

"Farm incomes in America are expected to hit their highest level in four decades this year,..."

Wall Street Journal November 26, 2013

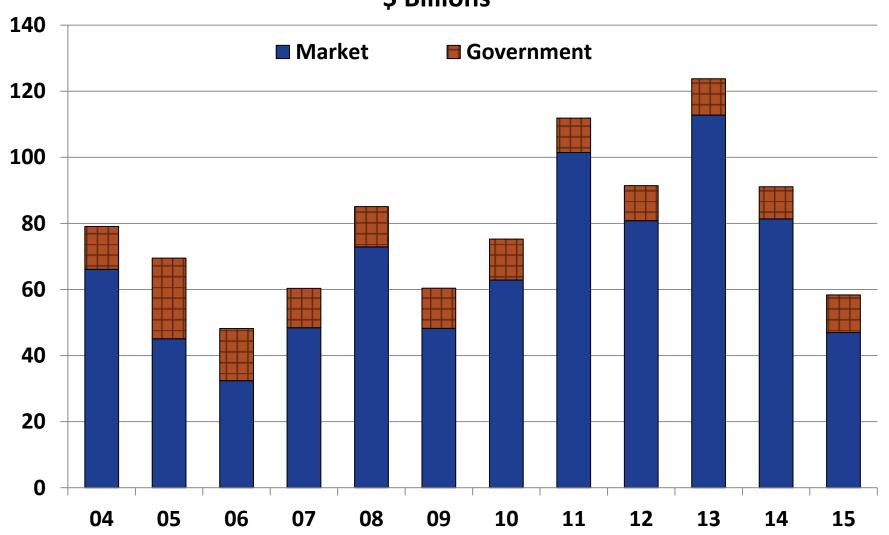
#### "U.S. Farm Income to Fall to Lowest Level in Nine Years"

"USDA predicts a 36% decline amid a slump in commodity prices and another large harvest"

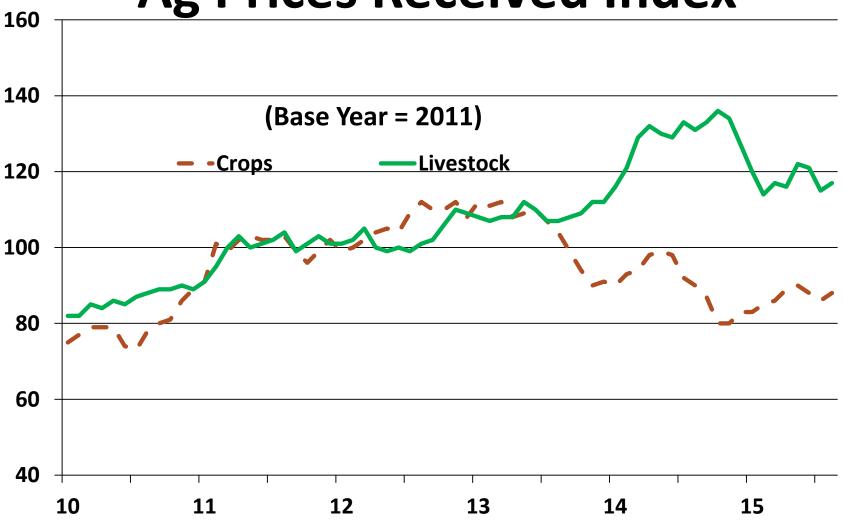
Wall Street Journal, August 25, 2015

## **U.S. Net Farm Income**





**Ag Prices Received Index** 



# OECD Interim Economic Outlook: Key messages February 18, 2016

### Stronger global growth remains elusive

- Weak trade, investment, and commodity prices
- Disappointing incoming data on demand conditions
- Low inflation and poor wage growth

### Financial instability risks are substantial

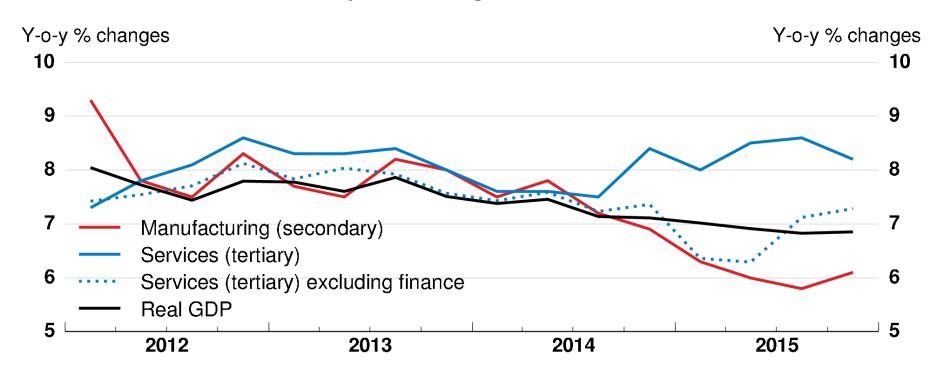
- Steep declines in global equity markets
- Volatile capital flows and high debt exposures in EMEs

### Collective policy action is urgent

- Maintain accommodative monetary policy
- Focus supportive fiscal policies on investment-led spending
- Revive pace of productivity- and growth-enhancing structural reforms

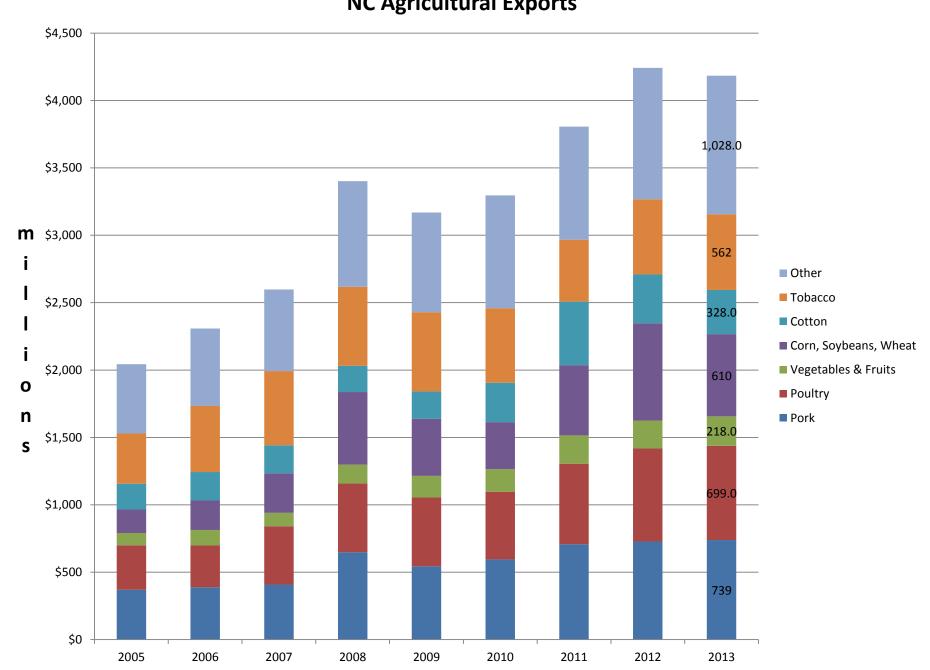
# OECD Interim Economic Outlook: Rebalancing in China and financial volatility are dragging on global markets

#### **Composition of growth in China**

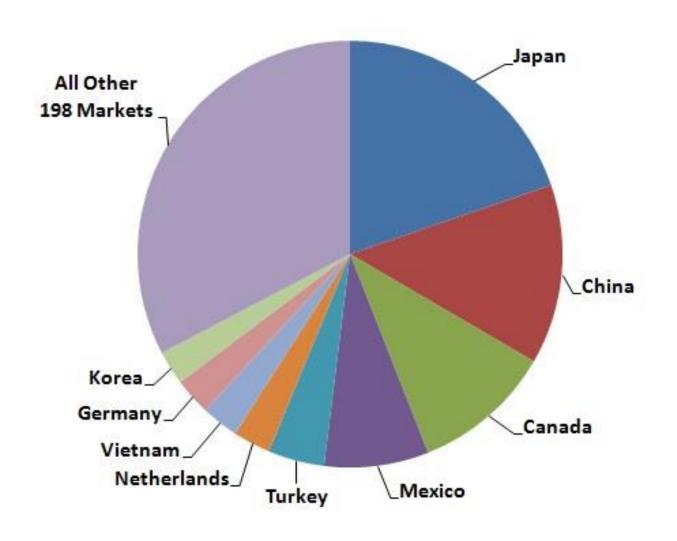


# Exports are vital to US & NC Agriculture

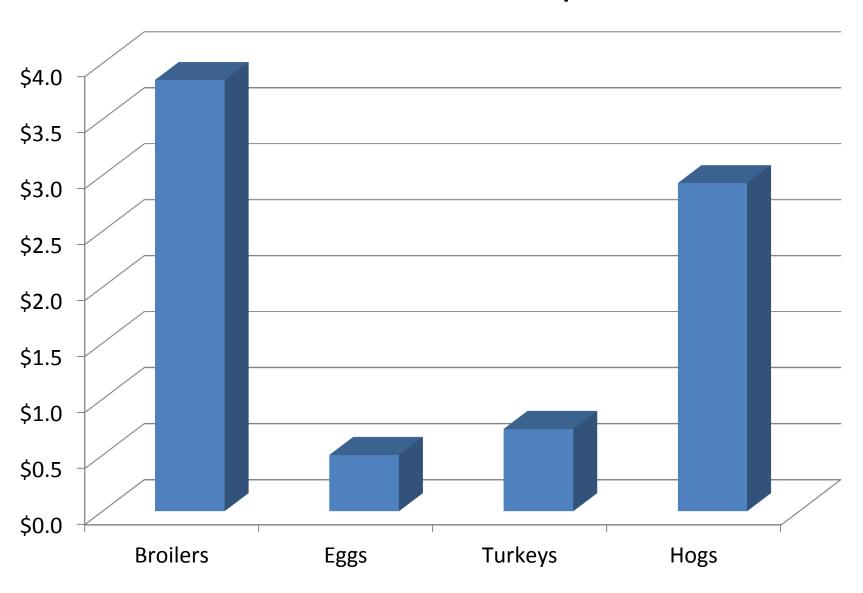
#### **NC** Agricultural Exports



## 2012 NC Agricultural Export Markets



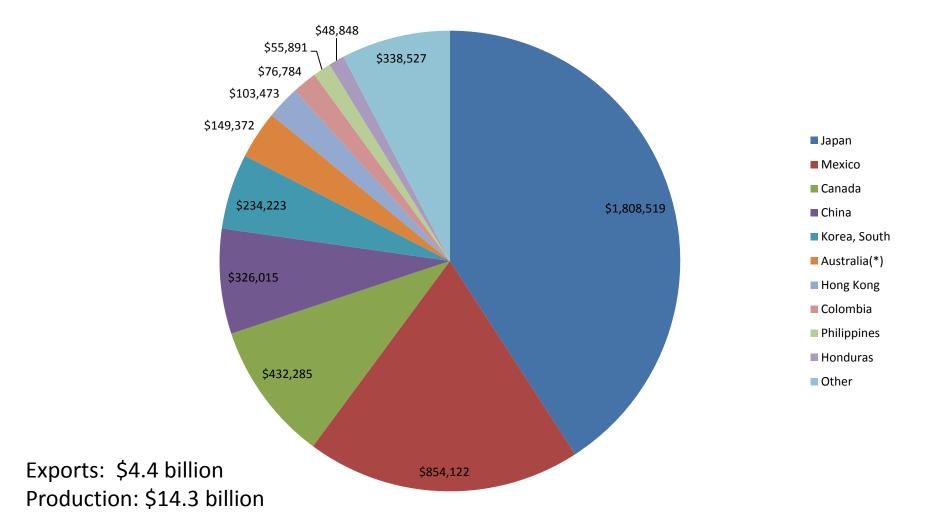
# NC Hogs and Poultry \$ billion 2014 Cash Receipts



### **US Meat Production and Prices**

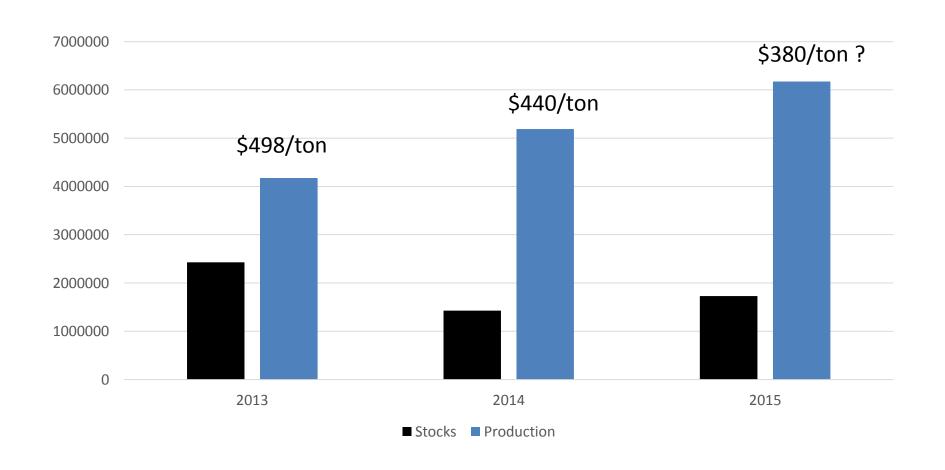
	2014	Estimated 2015	Projected 2016	% Change 2016 from 2015	
Production	Billion Pounds				
Beef	24.32	23.75	24.64	+3.75%	
Pork	22.86	24.517	24.98	+1.88%	
Broilers	38.14	39.61	40.59	+2.5%	
Turkey	5.76	5.63	5.94	+5.5%	
	Source: USDA WASDE (Feb 2016)				
Prices					
Feeder Cattle \$/cwt	202.82	202.52	176-185		
Live Cattle \$/cwt	154.56	149.19	136-147		
Hogs \$/cwt	76.03	50.23	46-49		
Broilers cents/lb	104.90	90.50	85-90		
Turkeys cents/lb	107.90	116.20	110-118		
		Source: USDA-ERS (Nov 2015)			

### U.S. Pork Exports: 2013 Value & Destinations



<b>Specialty Crops</b>	2014 Cash Receipts \$ million
Tobacco	\$912
Sweet Potatoes	\$355
Peanuts	\$94
Blueberries	\$78
Christmas Trees (2012)	\$75
Squash	\$37
Potatoes	\$36
Watermelons	\$35
Strawberries	\$29
Cucumbers	\$29

# US Peanut Stocks (as of Aug 30) and Production

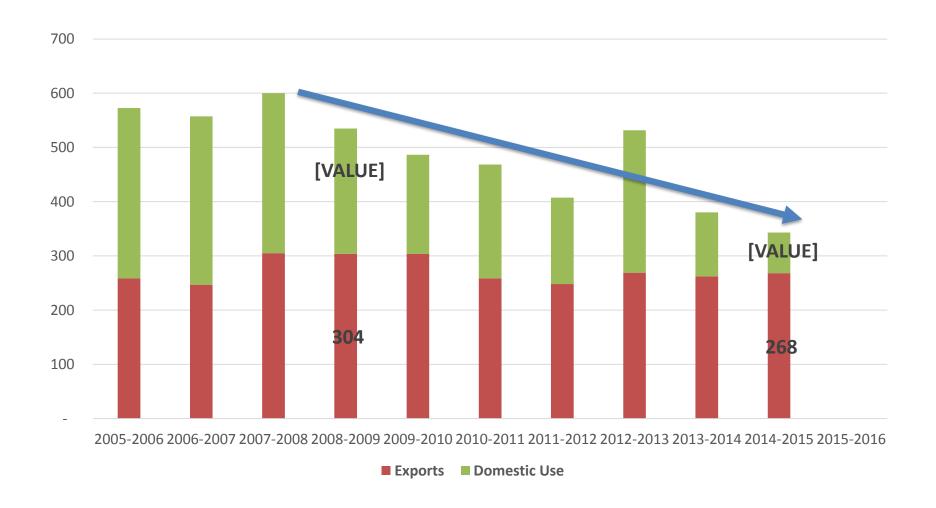


# Flue-Cured Tobacco Production: (million pounds)

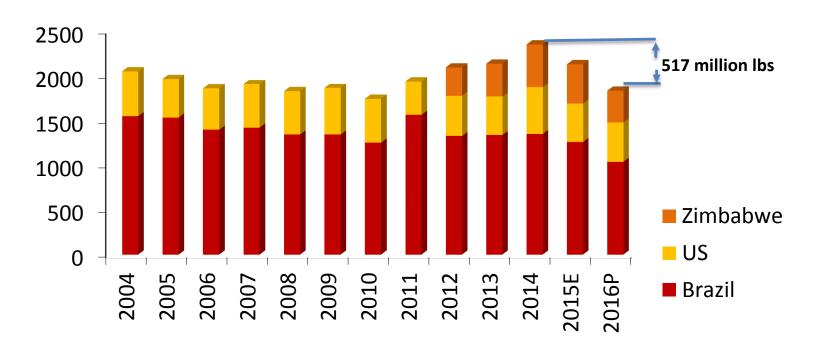
	2011	2012	2013	2014	2015*
US	345	473	454	557	468
NC	248	377	360	434	365

<sup>\*</sup>USDA-NASS October 2015 Estimate

### US Flue-Cured Exports and Domestic Disappearance



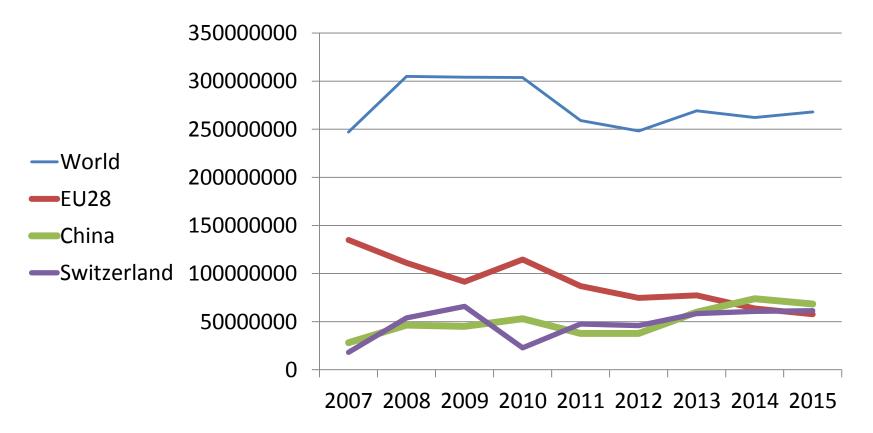
# Global Supply: U.S., Brazil and Zimbabwe Flue-Cured Tobacco Production



Source Brazil & U.S.: Universal Corporation. "World Leaf Production as of Nov 4, 2015." Source Zimbabwe: Zimbabwe Tobacco Association "Weekly FCV Report 10.05.2015"

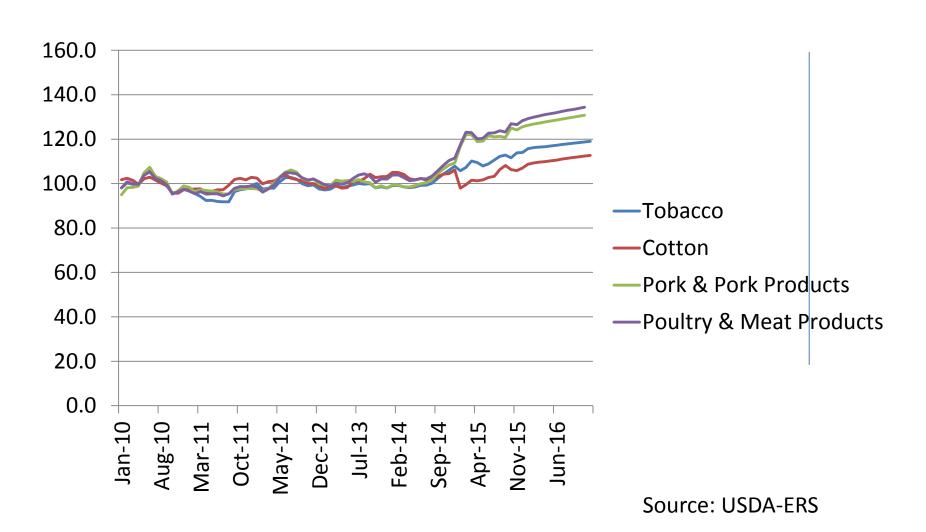
U.S. Unmanufactured <u>Exports</u> of Flue-Cured Tobacco (stemmed)

(lbs farm weight)



Source: USDA-FAS

# Real Commodity Exchange Rate Indices (monthly)



# How responsive are NC Ag Export Products to Changes in Customer Exchange Rates and GDP?

<b>US Export Product</b>	%Δ Exports/%ΔExchange Rate	%Δ Exports/%ΔGDP
Total Ag Products	-0.507	0.751
Cotton	-0.867	1.792
Tobacco Leaf	-0.543	-0.339
Fresh Vegetable	-0.547	2.189
Poultry	-0.390	5.251
Red Meats	-0.656	4.651

#### **US Tobacco Exports**

Dec 2016 Projected Index: 119.1

Aug 2014 Index : 100.2



**18.9% Increase** in

Exchange Rate Index

**10.2 % <u>Decrease</u>** in

Tobacco Exports

Implies US Flue-Cured Exports could decline from 262 million pounds for 2013-14 to 236 million pounds for 2015-16 marketing year; a 26 million pound decrease

#### Soybean Prices in Southeast Mato Grosso, Brazil

Soybeans are sold in Real (R\$) per sack A sack is 60 kg = 132.3 lbs = 2.2 bushels

	R\$/sack	R\$/bushel	R\$/US\$	US\$/bushel
12/9/2013	72.6	32.93	2.322	14.18
12/7/2015	66	29.94 -9.1%	3.879	7.72 -45.6%

Source: Instituto Mato-grossense de Economia Agropecuaria

### What will it take for markets to improve?

- Lower production...lower supplies
- Strengthening and/or stabilizing global markets...in particular China and the EU
- Recovery of foreign currencies relative to the US\$....in particular strengthening of Brazil's currency, R\$

### Cost & Return Estimates for Major NC Crops

	Flue-cured Tobacco	Sweet Potato	<b>Peanuts</b>	Cotton	Corn	Soybeans
	IODACCO	rotato	realiuts	Cotton	COITI	Joybeans
Price	\$1.85/lb	\$15/cwt	\$400/ton	\$0.60/lb	\$4.40/bu	\$9.00/bu
Yield/acre	2200 lbs	200 cwt	3800 lbs	891 lbs	110 bu	33 bu
Revenue	\$4,070	\$3,000	\$760	\$535	\$484	\$297
Operating Expense						
(land rent NOT included)	\$2,907	\$2,500	\$696	\$543	\$382	\$237
Return over Operating	\$1,163	\$500	\$64	-\$8	\$102	\$60
Fixed Cost	\$514	\$86	\$133	\$70	\$72	\$36
Return to Land, Risk & Mgt	\$649	\$414	-\$69	-\$78	\$30	\$24
, and the second						

# Coping with the downturn...

- Know your costs/ know your cash flow...create a plan
- Manage debt early
- Manage your equipment
- Preserve working capital...Cash is King
- Change will come...it always does
- What lessons can we carry forward to the good times?